ECS Configuration Change Request Page 1 of Page(s) 7. Dept. 1. Originator 2. Log Date: 3. CCR #: 4. Rev: Tel: 6. Rm #: Cherry Kenney 02-0242 301-883-4177 3204D DEV/CO 03/21/02 8. CCR Title: Patch 6A.05 STMGT.01C. For All DAACs. Contains fix for Eight SEV 2 NCRs, Two SEV 3 NCRs and One SEV 5 NCR. **Originator Signature/Date** 10. Class 11. Type: **12. Need Date:** 21Mar02 **CCR** Ш Cherry A. Kenney /s/ 3/21/02 13. Office Manager Signature/Date 14. Category of Change: 15. Priority: (If "Emergency" fill in Block 27). Initial ECS Baseline Doc. Arthur Cohen /s/ 3/21/01 Emergency 17. Schedule 18. CI(s) Affected:STMGT 16. Documentation/Drawings Impacted: Impact: 19. Release Affected by this Change: 20. Date due to Customer: 21. Estimated Cost: 21Mar02 6A None - Under 100K 22. Source Reference: NCR (attach) ☐ Action Item ☐ Tech Ref. ☐ GSFC Other: 33657, 32889, 32267, 33348, 33245, 32652, 32085, 33025, 33255, 33231, 32868 23. Problem: (use additional Sheets if necessary) Sv=2, ECSed33657, Desc: Ftp Thread Hung in DIRECT Command Sv=2, ECSed32868, Desc: OPS:6A.04:e0acg11:Anonymous FTP using a browser deletes data Sv=2, ECSed32889, Desc: GSFC/SMC Distribution hanging in OPS. Sv=2, ECSed32267, Desc: FTP pull doesn't use configured block size Sv=5, ECSed33348, Desc: Clean up Firewall code (Additional NCRs on page 3) Sv=2, ECSed33245, Desc EcDsStPullMonitorServer is out of sync 24. Proposed Solution: (use additional sheets if necessary) Deliver Patch_6A.05_STMGT.01C. Patch can be installed on top of initial 6A.05 delivery. NOTICE: THIS PATCH MUST BE INSTALLED AFTER PATCH_6A.05_DSS.01 25. Alternate Solution: (use additional sheets if necessary) Delay testing; wait until next full system delivery. 26. Consequences if Change(s) are not approved: (use additional sheets if necessary) Delays in testing or possible delays in 6A.05 operational testing 27. Justification for Emergency (If Block 15 is "Emergency"): Needed immediately following the delivery of 6A.05. 28. Site(s) Affected: ☐ EDF ☐ PVC ☐ VATC ☐ EDC ☐ GSFC ☐ Larc ☐ NSIDC ☐ SMC ☐ AK ☐ JPL ☐ EOC ☐ IDG Test Cell ☐ Other 29. Board Comments: 30. Work Assigned To: 31. CCR Closed Date:

CM01JA00 Revised 10/15/01 ECS/EDF/SCDV/M&O

Disposition: Approved

Approved

Fwd/ECS

Fwd/ECS

Fwd/ESDIS

Disposition: Approved App/Com.

App/Com.

App/Com. Disapproved Withdraw Fwd/ESDIS ERB

Disapproved Withdraw Fwd/ESDIS ERB

Disapproved Withdraw Fwd/ESDIS ERB

Disposition:

32. EDF/SCDV CCB Chair (Sign/Date):

33. M&O CCB Chair (Sign/Date):

34. ECS CCB Chair (Sign/Date):

Debra Stepp /s/ 3/21/02

/s/

3/21/02

Randall J. Miller

ADDITIONAL SHEET

CCR #: 02-0242 Rev: Originator: Cherry Kenney

Telephone: 301-883-4177 **Office:** 3204D

Title of Change: Patch_6A.05_STMGT.01C. For All DAACs. Contains fix for Eight SEV 2 NCRs, Two SEV 3 NCRs and

One SEV 5 NCR.

Actions:

ClearCase

Please make an IRIX65 tar file from the 6A.05 baseline with the following footprint:

.EcDsStArchive.pkg

.EcDsStDatabase.pkg (Patches 6121, 6123 and 6125)

.EcDsStIngestFtp.pkg

The name of this tar file should be Patch_6A.05_STMGT.01C DAAC INSTALL INSTRUCTIONS

** IMPORTANT NOTE **

Patch_6A.05_DSS.01 must be installed BEFORE you install Patch_6A.05_STMGT.01C

A. SETUP:

1. Untar the IRIX65 tar file using the following script:

Patch_6A.05_STMGT.01C_Mar13-2002_6A05_irix65_20020313_120007_Setup.ksh

When prompted, do not install a new version of EcsAssist.

- 2. cd <staging_area>/IRIX65/CUSTOM/dbms/DSS
- 3. chmod -R 775 *
- 4. cd <staging_area>/IRIX65/CUSTOM/.installed/DSS/stmgt
- 5. For Each mode you install: Edit the .rgypatch. Change the following line:

ALL ADD ALL/config/CFG/EcDsStFtpServer/PassiveHosts = /usr/ecs/<MODE>/CUSTOM/data/DSS/EcDsStPassiveFtpHosts Replace <MODE> with the mode (TS2, TS1 or OPS) you are installing.

- 6. Suspend all Distributions using the Distribution GUI (using the Suspend All option).
- 7. Take down all STMGT Servers and the STMGT Gui

B. INSTALLATION:

- 1. Logon to any SUN in the .sitemap. (E.A.S.I must be run from a SUN)
- 2. Bring up EcsAssist and via E.A.S.I. install the following three packages:

.EcDsStArchive.pkg

.EcDsStIngestFtp.pkg

.EcDsStDatabase.pkg

C. CONFIGURATION:

The following new parameter will be added to the STMGT .cfgparms file for the EcDsStFtpServer: PassiveHosts The default value will be /usr/ecs/\${MODE}/CUSTOM/data/DSS/EcDsStPassiveFtpHosts (NOTE: You do not need to change \${MODE} to the MODE. EcsAssist will do this for you if you run Mkcfg.) Also a file called EcDsStPassiveFtpHosts will be installed in the /usr/ecs/<MODE>/CUSTOM/cfg directory. The EcDsStFtpServer is installed on the following hosts:

EDC: e0acg11, e0drg011, e0drg012, e0icg11, e0wkg01 GSFC: g0acg01, g0drg01, g0drg02, g0icg01, g0icg02

LARC: I0drg01, I0icg01

NSIDC: n0acg01, n0drg01, n0icg01

On each of these hosts complete steps 1 - 8 (I recommend you configure xxacgnn last)

- 1. cd /usr/ecs/<MODE>/CUSTOM/cfg
- 2. mv EcDsStPassiveFtpHosts to /usr/ecs/<MODE>/CUSTOM/data/DSS/EcDsStPassiveFtpHosts (We installed this in the cfg directory, but then move it to the data/DSS directory. That way the file will not be deleted if we ever do a delete mode and it will not have to keep editting this file or moving it after installation of STMGT on these hosts.)
- 3. Bring up EcsAssist Subsystem Manager
- 4. Drill down through the MODE, DSS, EcDsSt, EcDsStStorgageMgmtApp, and click on EcDsStFtpServer.
- 5. Next Click on Configuration. Only the configuration parameters for EcDsStFtpServer should be displayed. When the .cfgparms are displayed verify all values displayed agree with the values already in the Registry. Then click on Continue. A new EcDsStFtpServer.CFG file will be created.
- 6. mv EcDsStFtpServer.CFG EcDsStFtpServer.CFG.rgy (You do not need to Populate the Registry, we will update the registry later using the .rgypatch. Do not try to run a .rgypatch from an SGI.)

STEPS 7 and 8 ARE IMPORTANT ONLY IF YOU HAVE A FIREWALL:

- 7. ls Irt SLCsocks5.conf.* (This will display a list of SLCsocks5.conf files)
- 8. Determine which file has the correct value for your firewall configuration and move that file to SLCsocks5.conf. (Delete the other copies if desired.)

example: mv SLCsocks5.conf.20020312121212 SLCsocks5.conf

After you have configured the EcDsStFtpServer and moved the SLCsocks5.conf and EcDsStPassiveFtpHosts files on all listed hosts, do the following on the host where the EcDsStFtpServer with a hardware CI of NONE is installed (normally xxacgnn):

- 9. cd /usr/ecs/<MODE>/CUSTOM/data/DSS
- 10. Edit the EcDsStPassiveFtpHost file. add fully qualified hosts names to the file. The hosts name to be added will be the external hosts for which you wish to use passive FTP for FTPing files

(Byron Peters should be contacted at 301-883-4077 to get a list of the hosts names for your DAAC.) If you nave no host names to add, then the file should will be 0 length, but should still exist.)

Next we will update the Registry for EcDsStFtpServer – We must do this on a sun.

- 11. Log on to the host where EcDsStmgtGui (or EcDsStRequestManager) is installed
- 12. cd /usr/ecs/<MODE>/CUSTOM/.installed/DSS/stmgt
- 13. cp <staging_area>/IRIX65/CUSTOM/.installed/DSS/stmgt/.rgypatch .rgypatch
- 14. Bring up the EcsAssist Subsystem Manager
- 15. Choose the MODE, DSS and EcDsSt.
- 16. On the Tools Menu, Click on Registry Data Patch

17. Fill in the following:

Registry Database Server: xxicgnn Registry DBO Id: css_role

Registry Password: <password>

Registry DB Name: EcCsRegistry<_MODE> (Remember to enter carriage return

Tree to patch: (select from pull down menu)

Patch File: -- /usr/ecs/<MODE>/CUSTOM/.installed/DSS/stmgt/.rgypatch

- 18. To view the contents of the patch file you are about to apply click on the words Patch File.
- 19. After you have reviewed the .rgypatch file, click OK. This will update the current Registry tree with the new PassiveHosts parameter for EcDsStFtpServer for all hosts.
- D. PATCH STMGT DATABASE:
- 1. On the host were the STMGT database is installed (xxacgnn), bring up EcsAssist Subsystem Manager
- 2. Select the MODE, DSS, EcDsSt and then click on Database Patch
- 3. Update the STMGT database with the following patches:

Patch Number Patch Description

- 6121 Modified DsStCMSelectExpiredLinks store procedure to allow deletion of file links.
- 6123 Adds new store procedure DsStCMUpdateExpireDir, sets new Expiration datetime for the file transfered.
- 6125 Changes Retention default in DsStStagingDisk to 720 and updates the Retention values in table by changing value to 720 (NCR 33025)
- 6129 Changes DsStCMDeleteExpiredLiens.sp to free space reserved by client (NCR 33245)

IMPORTANT: Patch 6120 must be installed by Patch_6A.05_DSS.01 prior to this.

(Since the delivery of 6A.05 Patches 6120, 6121, 6123, 6125 and 6129 are the only patches that have been added to the STMGT database.)

POST INSTALLATION

While testing the NCRs for this delivery it was discovered the original 6A.05 Installation Instructions contain an error. To correct this error you need to do the following 3 steps:

- 1. Bring up the STMGT Gu
- 2. Select EcDsStCacheManagerServerPULL, Click On Modify Server (This only applies to the Pull Monitor)
- 3. Revew the value for the FTP Notification file. You may have a directory and file name listed in this field. This field should only contain the DIRECTORY name where the FTP Notification File resides. DO NOT ADD THE FILE NAME. If this value is not correct please update it an then click on OK.
- 4. Warm Start all the STMGT servers. You may also bring up the STMGT GUI if needed.
- 5. Manually Resume all distribution on the DDIST GUI and click on Resume ALL.

Additional NCRs from page 1

Sv=2, Bug id = ECSed32652, Desc: OPS:6A.04:EcDsStPullMonitorServer cored due to Segmentation

Sv=2, Bug id = ECSed32085, Desc: STMGT Db Patch logging incomplete

Sv=2, Bug id = ECSed33025, Desc: OPS:6A.04:DDIST: XLargeRequest MULTIPLE Failed w/DiskNot

Sv=3, Bug id = ECSed33255, Desc: Ensure STMGT tables have datapages locking scheme as appropriate

Sv=3, Bug id = ECSed33231, Desc: Storage Management database patch EcDsStDbPatch6121.sql references 6119, A

See attached Test Report.

System Ingration and Test PATCH TEST PLAN

System Integration and Test PATCH TEST PLAN			
Path Name/ID:	Delivery Date:11 Mar.02	Assigned Engine	er:
	Install Location/Mode:		
Patch_6A.05_STMGT_01C	PVC/TS2	Lillian Washingt	on
Included NCRs:	Footprint: (size and type of	-	-
ECSed32868 - OPS:6A.04:e0acg11:Anonymous ftp	This patch is a STMGT patch, affected capabilities are:FTP		
using a browser deletes data	pull(s), Anonymous ftp(s), PullMonitorServer, DDIST,		
ECSed32889 -GSFC/SMC Distribution hanging in	STMGT DB		
OPS ECSed32267-FTP pull doesn't use configured block			
size			
ECSed33348-Clean up firewall code			
ECSed33245-			
OPS:6A.04.C3:SA:EcDsStPullMonitorServer is out of			
sync with the database			
ECSed32652-OPS:6A.04:EcDsStPullMonitorServer			
cored due to Segmentation			
ECSed32085-STMGT Db Patch logging incomplete			
ECSed33025-OPS:6A.04:DDIST:XlargeRequest			
MULTIPLE Failed w/DiskNotExit			
ECSed33255-Ensure STMGT tables have data			
pages locking schema as appropriate ECSed33231-Storage Management database patch			
EcDsStDbPath6121.sql references			
ECSed33657-Ftp Thread Hung in DIRECT			
Command			
Ops Objective (s): Verification of NCRs via Functiona	l testing and Regression test	ting to insure stmg	t is function
properly.			
Requirements: Modes/Tools:			
TS2 and OPS mode, sds test driver,			
Requirements: L7, Aster, MOD000, AIRB0SCI			
Requirements: Point(s) of Contact:	Requiremets: Personnel N	Needed to Execute	Tests:
Tzhu	JRattiga		
Hzhang	Mricucci		
Hclglaz			
Dhall			
Oladele			
Rhartran			
Estimated Time to Complete: (Including Preparation Time) DAYS: 6 HRS:			
Inputs/Actions:	Outputs/Expected Results:		Comments:

System Ingration and Test PATCH TEST PLAN

 ECSed32868 - OPS:6A.04:e0acg11:Anonymous ftp using a browser deletes data: Anonymous Ftp small L7 file to completion. Check PullMonitorDebug.log to make sure the "Target file size" and "our size" are equal. Anonymous Ftp a Large L7 file, kill before completion. Check PullMonitorDebug.log "Target file size" and "our size" should not match. Log message should read "Link is not removed, since the file has not been transferred completed" 	Anonymous Ftp small file complete. PullMonitorDebug.log show target file size and our size match. Anonymous ftp killed during transfer. PullMonitorDebug.log show target file size and our size not matching. Log also indicated link as not been deleted since file was not transfer completed.	On the Stmgt. Gui. The Cache ManagerServ er Configuration "FTP Notification File" should not include "PullFtpNotif y.dat" at the end of the path - remove it if it is included.
 ECSed32889 -GSFC/SMC Distribution hanging in OPS A Gsfc 24hr run was conducted on 3/12/02 in the PVC OPS mode using 6A.06_PRELIM.08 code- the Distribution hang problem was not seen. Later the cache and Pull area were check and it was clean Developer ran test in PVC lab TS2 	Regression tested in the PVC 24 hr run.	
 Brought down FtpServer Sent in 2 ftp Push requests using SDS Test Driver Check table to see if links were created in the DsStFileLink table Expired Links in DsStFileLink Table Updated DsStCacheTable. Set the totalCacheSpace to sum of files currently in Cache. Sent in a new FtpPush request Verified that Links were cleared from table 	Also ran in the PVC lab successfully.	
 ECSed32267-FTP pull doesn't use configured block size Developer was checking performance of ftp server. 	This NCR was regression tested by the developer in the PVC, TS2.	
 ECSed33348-Clean up firewall code Modify ftp passive host file Submit ftp push request Verify ftpServerDebug.log indicate passive ftp was used 	FtpServerDebug.log showed passive ftp being used.	
ECSed33245- OPS:6A.04.C3:SA:EcDsStPullMonitorServer is out of sync with the database	Developer recommend this NCR be verify at the site. Unable to verify on site.	

System Ingration and Test PATCH TEST PLAN

ECSed32652-	The ftp Debug.log showed "Not logged in -	
OPS:6A.04:EcDsStPullMonitorServer cored due to	error in ftp #530 - username or password	
Segmentation	incorrect" all acquires failed. System did not	
Push data to directory 100% full	core.	
 ftp push acquire large file using wrong 		
Password		
• ftp push acquire large file using wrong		
directory		
• check ftpDebug.log		
TOO MARKET COMPLETE TO A 1		
ECSed32085-STMGT Db Patch logging	Regression tested in the EDF lab. Errors are	
incomplete	now seen in the patch log file	
EcDsStDbPatch was modified in the database		
to send the output the debug_logfile		
ECSed33025-OPS:6A.04:DDIST:XlargeRequest	Regression tested in the EDF lab.	
MULTIPLE Failed w/DiskNotExit		
Developer changed database for the		
retention field defaults to 48 hours		
ECSed33255-Ensure STMGT tables have data	This NCR has a closed status.	
pages locking schema as appropriate		
Developer added lock datapages to the		
EcDsStDbTable.sql file in the database		
ECSed33231-Storage Management database	This NCR has a closed status.	
patch EcDsStDbPath6121.sql references		
• Developer put a fix in the 6121.sql file and		
deleted the reference to 6119		
ECSed33657-Ftp Thread Hung in DIRECT	No Ftp Thread Hung in DIRECT Command	
Command	during the Gsfc 24 hr run.	
• A Gsfc 24 hr run was conducted on 3/12/02 in		
the PVC OPS mode using the		
6A.06_PRELIM.08 code. There were no ftp		
threads observed that hung with a similar		
DIRECT Command unsuccessful message.		
Attachments (Meassages/snaps):		